

Abstract

Author: Jan Novák

Title of thesis: The case study of physiotherapeutical treatment of the patient with a diagnosis of spastic paraparesis as a result of intradural meningioma

Objective: The aim of this bachelor thesis is to elaborate theoretical knowledge about a spastic paraparesis as a result of intradural meningioma. The theoretical knowledges and findings were used as a base for creating proper physioterapeutical treatment for patients with diagnosis mentioned above.

Methods: The thesis is devided into two parts, the theoretical part is aimed to spinal and spinal cord anatomy, its physiology and patophysiology. Moreover information about spinal cord tumors, their symptomatology, diagnostics and treatment are included. The practical part contains the case study of patient and includes in kinesiological analysis, detailed description of all the therapeutic units, out kinesiological analysis and the conclusion. This part gains its practical findings from specialized experience at rehabilitation department in Fakultní nemocnice Královské Vinohrady in period from 21st January to 15th February, 2019.

Results: Patient's health condition has been improved. We could observe better muscle strenght and range of motion of lower extremities and participation of core muscles. Moreover quality of sitting, standing and walking has also showed positive results. These changes are described in detail in conclusion. As a consequence of improvements mentioned above the therapy can be concluded as effective.

Conclusion: Every previously set aim of this thesis was completed and regarding to their results, the positive effect of choosen therapeutical methods were proven.

Key words: spinal tumor, thoracic spine, spasticity, paraparesis, lower limbs, physiotherapy